

L Number	Hits	Search Text	DB	Time stamp
1	1090	("382/115-127").CCLS.	USPAT; US-PGPUB	2002/03/21 16:00
4	3	discriminant adj analysis and (("382/115-127").CCLS.)	USPAT; US-PGPUB	2002/03/21 16:01
7	31	discriminant and ("382/115-127").CCLS.)	USPAT; US-PGPUB	2002/03/21 17:43
10	1	("4975581").PN.	USPAT; US-PGPUB	2002/03/21 17:43

L Number	Hits	Search Text	DB	Time stamp
1	1090	("382/115-127").CCLS.	USPAT; US-PGPUB	2002/03/21 12:51
4	2	((("382/115-127").CCLS.) and spectrometer	USPAT; US-PGPUB	2002/03/21 12:55
7	134	((("382/115-127").CCLS.) and (spectrum or spectra)	USPAT; US-PGPUB	2002/03/21 13:28
10	26	("3816709" "4263551" "4263920" "4370611" "4433286" "4467545" "4493039" "4602639" "4654658" "4727330" "4881025" "4896363" "4929898" "4990851" "5063937" "5105190" "5163094" "5389790" "5461812" "5503157" "5529072" "5704355" "5719950" "5793881" "5812252" "5953844").PN.	USPAT; US-PGPUB	2002/03/21 12:57
13	1	("4,699,149").PN.	USPAT; US-PGPUB	2002/03/21 12:59
16	8	("3639905" "4032889" "4301808" "4393366" "4473081" "4489731" "4545387" "4565968").PN.	USPAT; US-PGPUB	2002/03/21 13:03
19	19	4699149.URPN.	USPAT; US-PGPUB	2002/03/21 13:06
22	5	("4699149" "4817183" "5787185" "5805723" "5887140" "4699149" "4817183" "5787185" "5805723" "5887140").PN.	USPAT; US-PGPUB	2002/03/21 13:07
25	10	((("382/115-127").CCLS.) and (subcutan\$5)	USPAT; US-PGPUB	2002/03/21 14:05
28	709	("356/71").CCLS.	USPAT; US-PGPUB	2002/03/21 14:06
31	126	((("356/71").CCLS.) and spectrum	USPAT; US-PGPUB	2002/03/21 14:10
34	126502	((("356/71").CCLS.) and spectrum) and ir or infrared	USPAT; US-PGPUB	2002/03/21 14:06
37	60	((("356/71").CCLS.) and spectrum) and (ir or infrared)	USPAT; US-PGPUB	2002/03/21 14:10
40	14	((("356/71").CCLS.) and spectrum) and (ir or infrared)) and (skin or tissue or subcutan\$7)	USPAT; US-PGPUB	2002/03/21 14:10
43	1204	("356/51,303,445,939").CCLS.	USPAT; US-PGPUB	2002/03/21 14:10
46	517	((("356/51,303,445,939").CCLS.) and spect\$3	USPAT; US-PGPUB	2002/03/21 14:18
49	302	((("356/51,303,445,939").CCLS.) and spect\$3) and (ir or infrared)	USPAT; US-PGPUB	2002/03/21 14:19
52	40	((("356/51,303,445,939").CCLS.) and spect\$3) and (ir or infrared)) and (skin or tissue or subcutan\$7)	USPAT; US-PGPUB	2002/03/21 14:19
55	40	((("356/51,303,445,939").CCLS.) and spect\$3) and (ir or infrared)) and (skin or tissue or subcutan\$7)) not (("382/115-127").CCLS.) not (((("356/71").CCLS.) and spectrum) and (ir or infrared)) and (skin or tissue or subcutan\$7))	USPAT; US-PGPUB	2002/03/21 14:19
58	0	((("356/51,303,445,939").CCLS.) and spect\$3) and (ir or infrared)) and (skin or tissue or subcutan\$7)) not (("382/115-127").CCLS.) not (((("356/71").CCLS.) and spectrum) and (ir or infrared)) and (skin or tissue or subcutan\$7))) and biometric\$4	USPAT; US-PGPUB	2002/03/21 14:17
61	893	("250/559.44,316.1,339.07,339.1,341.8").CCLS.	USPAT; US-PGPUB	2002/03/21 14:17
64	1	((("356/51,303,445,939").CCLS.) and biometric	USPAT; US-PGPUB	2002/03/21 14:18
67	1	((("356/51,303,445,939").CCLS.) and biometric\$4	USPAT; US-PGPUB	2002/03/21 14:18

70	440	((("250/559.44,316.1,339.07,339.1,341.8").CCLSPAT; and spect\$3	US-PGPUB	2002/03/21 14:19
73	383	((("250/559.44,316.1,339.07,339.1,341.8").CCLSPAT; and spect\$3) and (ir or infrared)	US-PGPUB	2002/03/21 14:19
76	58	((("250/559.44,316.1,339.07,339.1,341.8").CCLSPAT; and spect\$3) and (ir or infrared)) and (skin or tissue or subcutan\$7)	US-PGPUB	2002/03/21 14:19
79	0	((("250/559.44,316.1,339.07,339.1,341.8").CCLSPAT; and spect\$3) and (ir or infrared)) and biometric\$4	US-PGPUB	2002/03/21 14:19
82	53	(((((("250/559.44,316.1,339.07,339.1,341.8").CCLSPAT; and spect\$3) and (ir or infrared)) and (skin or tissue or subcutan\$7)) not (("382/115-127").CCLSPAT) not ((((("356/71").CCLSPAT) and spectrum) and (ir or infrared)) and (skin or tissue or subcutan\$7)) not ((((("356/51,303,445,939").CCLSPAT) and spect\$3) and (ir or infrared)) and (skin or tissue or subcutan\$7)) not (("382/115-127").CCLSPAT) not ((((("356/71").CCLSPAT) and spectrum) and (ir or infrared)) and (skin or tissue or subcutan\$7)))	US-PGPUB	2002/03/21 14:20

L Number	Hits	Search Text	DB	Time stamp
1	1	("4658147").PN.	USPAT; US-PGPUB	2002/03/21 10:41
4	2	("4211486" "4302681" "Woodsford").PN.	USPAT; US-PGPUB	2002/03/21 10:34
7	9	4658147.UREN.	USPAT; US-PGPUB	2002/03/21 10:34
10	1	("5448501").PN.	USPAT; US-PGPUB	2002/03/21 10:42
13	1	("6154658").PN.	USPAT; US-PGPUB	2002/03/21 11:16
16	3	("5732074" "5819184" "6038430").PN.	USPAT; US-PGPUB	2002/03/21 10:57
19	1	("6352502").PN.	USPAT; US-PGPUB	2002/03/21 11:21
22	14	("3906241" "4427889" "4655225" "4975581" "5086229" "5194913" "5243983" "5261410" "5305759" "5372135" "5553616" "5713364" "5813987" "5995867" "3906241" "4427889" "4655225" "4975581" "5086229" "5194913" "5243983" "5261410" "5305759" "5372135" "5553616" "5713364" "5813987" "5995867").PN.	USPAT; US-PGPUB	2002/03/21 11:18
25	1	"14" and identification	USPAT; US-PGPUB	2002/03/21 11:21

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| | Leonard N. Foner
Mobile Networks and Applications March 1999
Volume 4 Issue 1
A design for an implemented, prototype wearable artificial sensory system is presented, which uses data sonification to compensate for normal limitations in the human visual system. The system gives insight into the complete visible-light spectra from objects being seen by the user. Long-term wear and consequent training might lead to identification of various visually-indistinguishable materials based on the sounds of their spectra. A detailed system design and results of user testing are ... | |
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Volume 43 Issue 2 | |
| 3 | Applications of a numerical geometry system in engineering | 77% |
| | J. P. Mayfield , R. M. Burkley
The proceedings of the thirteenth design automation conference on Design automation June 1976
In December of 1972, a study effort was undertaken at TRA to determine if it was feasible to create a computer based system that would significantly improve the generation, usage and dissemination of geometric information in an engineering, design and manufacturing environment. The effort was divided into several phases: study, system design and economic evaluation and, finally, implementation. The system which has been implemented is a highly interactive keystroke driven system ... | |

- 4** The use of computer-simulated radiances to retrieve total atmospheric ozone data from satellite-mounted infrared multifilter radiometers 77%
 Patrick P. Weidhaas
Proceedings of the 14th annual simulation symposium March 1981
Between March 1977 and February 1980, four satellites equipped with multichannel filter radiometer (MFR) sensors supplied infrared radiance data at various spectral channels. The Satellite Ozone Analysis Center (SOAC) at the Lawrence Livermore National Laboratory received the radiance data from the U.S. Air Force. An ozone retrieval model was developed by SOAC in order to derive total ozone values from the radiance data. Statistical comparison against a network of ground observatories which ...
- 5** Automated design and analysis system for design of custom orthopedic implants 77%
 R. L. Dooley , G. Heimke , Aijt Dingankar , E. Berg , E. Kimbrough
Proceedings of the first international conference on Industrial & engineering applications of artificial intelligence & expert systems June 1988
A parametric model for implant design has been developed and incorporated into an expert system for prosthesis design and manufacturing. The expert system acquires data concerning the physical characteristics of a patient. The system conceptualizes a space-filling custom design based upon the available data and calculations. The system considers existing off-the-shelf designs and the custom design as parallel alternatives and applies geometric criteria to eliminate designs that are incompat ...
- 6** The development of Prometheus: an expert system tool for preliminary design of spacecraft thermal control systems 77%
 Gary Barg , Nikola Djordjevic , Steven Hall
Proceedings of the first international conference on Industrial & engineering applications of artificial intelligence & expert systems June 1988
Spacecraft thermal control system design is a complex application of thermal engineering. This design process has a structure that is common for many experienced thermal control system engineers. Prometheus, an expert system design tool, was developed to guide the thermal engineer to an acceptable preliminary design for a spacecraft thermal control system. Its architecture reflects the common structure of the thermal control system preliminary design process. The scope is intially limited t ...
- 7** Video Applications: Building an intelligent camera management system 77%
 Yong Rui , Liwei He , Anoop Gupta , Qiong Liu
Proceedings of the International Conference on Multimedia September 2001
Given rapid improvements in storage devices, network infrastructure and streaming-media technologies, a large number of corporations and universities are recording lectures and making them available online for anytime, anywhere access. However, producing high-quality lecture videos is still labor intensive and expensive. Fortunately, recent technology advances are making it feasible to build automated camera management systems to capture lectures. In this paper we report our design of such a sys ...
- 8** Volumetric backprojection 77%
 Frank Dachille , Klaus Mueller , Arie Kaufman
Proceedings of the 2000 IEEE symposium on Volume visualization October 2000

9 Embedded computation meets the World Wide Web 77%


 Gaetano Borriello , Roy Want
Communications of the ACM May 2000
Volume 43 Issue 5

10 Data clustering 77%

 A. K. Jain , M. N. Murty , P. J. Flynn
ACM Computing Surveys (CSUR) September 1999
Volume 31 Issue 3

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

11 Multimodal people ID for a multimedia meeting browser 77%


 Jie Yang , Xiaojin Zhu , Ralph Gross , John Kominek , Yue Pan , Alex Waibel
Proceedings of the seventh ACM international conference on Multimedia (Part 1)
October 1999

A meeting browser is a system that allows users to review a multimedia meeting record from a variety of indexing methods. Identification of meeting participants is essential for creating such a multimedia meeting record. Moreover, knowing who is speaking can enhance the performance of speech recognition and indexing meeting transcription. In this paper, we present an approach that identifies meeting participants by fusing multimodal inputs. We use face ID, speaker ID, color appearance ID, a ...


12 Next century challenges 77%

 Deborah Estrin , Ramesh Govindan , John Heidemann , Satish Kumar
Proceedings of the fifth annual ACM/IEEE international conference on Mobile computing and networking August 1999

13 Tracking hands above large interactive surfaces with a low-cost scanning laser 77%

 rangefinder
Joshua Strickon , Joseph Paradiso
Proceedings of the conference on CHI 98 summary : human factors in computing systems April 1998

14 Terrain database interoperability issues in training with distributed interactive 77%

 simulation
Guy A. Schiavone , S. Sureshchandran , Kenneth C. Hardis
ACM Transactions on Modeling and Computer Simulation (TOMACS) July 1997
Volume 7 Issue 3

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, resulting in unrealistic simulation results or negative training, and a corresponding degradation of interoperability in a DIS simulation exercise. In the DIS community, this is known as the simulator terrain database (TDB) correlation

problem. ...

15 SCAAT 77%

 Greg Welch , Gary Bishop
Proceedings of the 24th annual conference on Computer graphics and interactive techniques August 1997


16 Tangible bits 77%

 Hiroshi Ishii , Brygg Ullmer
conference proceedings on Human factors in computing systems March 1997


17 "Smart clothing" 77%

 Steve Mann
Proceedings of the fourth ACM international conference on Multimedia February 1997


18 Principles and applications of chaotic systems 77%



 William Ditto , Toshinori Munakata
Communications of the ACM November 1995
Volume 38 Issue 11
There lies a behavior between rigid regularity and randomness based on pure chance. It's called a chaotic system, or chaos for short [5]. Chaos is all around us. Our notions of physical motion or dynamic systems have encompassed the precise clock-like ticking of periodic systems and the vagaries of dice-throwing chance, but have often been overlooked as a way to account for the more commonly observed chaotic behavior between these two extremes. When we see ...

19 An automatic lip-synchronization algorithm for synthetic faces 77%

 K. Waters , T. Levergood
Proceedings of the second ACM international conference on Multimedia October 1994
This paper addresses the problem of automatically synchronizing computer-generated faces with synthetic speech. The complete process provides a novel form of face-to-face communication and the ability to create a new range of talking personable synthetic characters. Based on plain ASCII text input, a synthetic speech segment is generated and synchronized in real-time to a graphical display of an articulating mouth and face. The key component of the algorithm is the run-time ...

20 A survey of image registration techniques 77%

 Lisa Gottesfeld Brown
ACM Computing Surveys (CSUR) December 1992
Volume 24 Issue 4
Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

 
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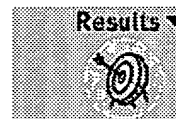
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ACM Computing Surveys (CSUR) September 1999
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Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ... | |

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- ☐ 2. Infrared spectra of U.S. automobile original topcoats (1974-1989): III. In situ identification of some organic pigments used in yellow, orange, red, and brown nonmetallic and brown metallic finishes—benzimidazolones; *Edward M Suzuki; Journal of Forensic Sciences*, Philadelphia; Jul 1997; Vol. 42, Iss. 4; pg. 619, 30 pgs
- ☐ 3. Infrared spectra of U.S. automobile original topcoats (1974-1989): I. Differentiation and identification based on acrylonitrile and ferrocyanide C(Triple bond)N stretching absorptions; *Edward M Suzuki; Journal of Forensic Sciences*, Philadelphia; May 1996; Vol. 41, Iss. 3; pg. 376, 17 pgs
- ☐ 4. Infrared spectra of U.S. automobile original topcoats (1974-1989): II. Identification of some topcoat inorganic pigments using an Extended Range (4000-220cm(negative)1) Fourier Transform Spectrometer; *Edward M Suzuki; Journal of Forensic Sciences*, Philadelphia; May 1996; Vol. 41, Iss. 3; pg. 393, 14 pgs
- ☐ 5. A spectacular demonstration of the disaccharide link; *Cadet, Frederic; Biochemical Education [H.W. Wilson - EDUC]*; Apr 1995; Vol. 23; pg. 86
- ☐ 6. The eyes have it; *Womack, Melvin; Sensor Review*, Bradford; 1994; Vol. 14, Iss. 4; pg. 15, 2 pgs
- ☐ 7. Zirconium oxide stationary phase for thin-layer chromatography with diffuse reflectance Fourier transform infrared detection; *Danielson, Neil D; Katon, J E; Bouffard, Steven P; Zhu, Zhaohai; Analytical Chemistry*, Washington; Sep 15, 1992; Vol. 64, Iss. 18; pg. 2183
- ☐ 8. Expert system based on principal components analysis for the identification of molecular structures from vapor-phase infrared spectra. 2. Identification of carbonyl-containing functionalities; *Hasenoehtl, Erik J; Perkins, Jonathan H; Griffiths, Peter R; Analytical Chemistry*, Washington; Mar 15, 1992; Vol. 64, Iss. 6; pg. 656
- ☐ 9. Identification of Features Due to H(3Plus) in the Infrared Spectrum of Supernova 1987A; *Miller, Steven; Tennyson, Jonathan; et al; Nature*, London; Jan 30, 1992; Vol. 355, Iss. 6359; pg. 420, 3 pgs
- ☐ 10. Identification Of Drug By Their Near Infrared Spectra; *Kohn, Wolfgang H; Journal of Forensic Sciences*, Philadelphia; Jan 1992; Vol. 37, Iss. 1; pg. 35

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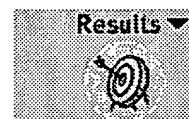
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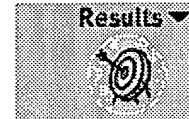
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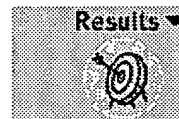
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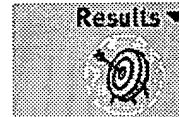
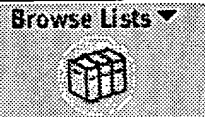
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Tungol, Mary W.; Bartick, Edward G.; Reffner, John A.;

AA(FBI Lab.) AB(FBI Academy) AC(Spectra-Tech, Inc.)

Publication: Proc. SPIE Vol. 2089, p. 460-461, 9th International Conference on Fourier Transform Spectroscopy, John E. Bertie; Hal Wieser; Eds.**Publication Date:** 1/1994

Abstract:

Applications of microscopical infrared internal reflection spectroscopy in forensic science are discussed. Internal reflection spectra of single fibers, hairs, paint chips, vehicle rubber bumpers, photocopy toners, carbon copies, writing ink on paper, lipstick on tissue, black electrical tape, and other types of forensic evidence have been obtained. The technique is convenient, non-destructive, and may permit smeared materials to be analyzed in situ.

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